No.



8400096

THE DAILIED STRATES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Asgrow Seed Company

Wilhereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE; IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OF ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF CIGhteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, MPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THE THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT

SOYBEAN

'A6242'

In Lestimony Winercot, I have hereunto set my hand and caused the seal of the Plant Bariety Brotection Office to be affixed at the City of Washington this 28th day of June in the year of our Lord one thousand nine hundred and eighty-five.

Sant Heran

Plant Variety Protection Office Agricultural Marketing Service In R Blak

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION

APPLICATION FOR PLANT VARIE		CTION CERTIFICATE	be issu	ant variety protection certificate is to ued (7 U.S.C. 2421). Information is confidential until certificate is issued S.C. 2426).
1. NAME OF APPLICANT(S)		2. TEMPORARY DESIGNATION	ON 3. V	ARIETY NAME
Asgrow Seed Company		XP6242		A6242
4. ADDRESS (Street and No. or R.F.D. No., City, State	, and Zip Code)	5. PHONE (Include area code)		FOR OFFICIAL USE ONLY
(9620 190 25) Asgrow Seed Com	pany	(616) 385-6605	PVPC	NUMBER
Kalamazoo, MI	49001			8400096
6. GENUS AND SPECIES NAME	7. FAMILY NA	ME (Botanical)		DATE
Glycine Max	Legumino	sae	FILING	5/3/84 TIME 2:30 A.M. X P.M.
8. KIND NAME	9.	DATE OF DETERMINATION		AMOUNT FOR FILING
Soybean		October 1981	RECEIVED	\$ 1,800 DATE 5/3/84
10. IF THE APPLICANT NAMED IS NOT A "PERSON partnership, association, etc.) Corporation	I," GIVE FORM	OF ORGANIZATION (Corpora	tion,	AMOUNT FOR CERTIFICATE \$ 200.00 DATE 5/13/85
11. IF INCORPORATED, GIVE STATE OF INCORPO	RATION		12.	DATE OF INCORPORATION
Delaware 13. NAME AND ADDRESS OF APPLICANT REPRES		,		March 22, 1968
Asgrow Seed Company Kalamazoo, MI 49001 14. CHECK APPROPRIATE BOX FOR EACH ATTAC a. Exhibit A, Origin and Breeding History of the Section 52 of the Plant Variety Protection Ac b. Exhibit B, Novelty Statement 15. DOES THE APPLICANT(S) SPECIFY THAT SEED SEED? (See Section 83(a) of the Plant Variety Pro	Variety (See t.)	c. X Exhibit C, Object from Plant Variet d. Exhibit D, Additi	y Protection onal Descri	ption of the Variety Y AS A CLASS OF CERTIFIED
16. DOES THE APPLICANT(S) SPECIFY THAT THIS LIMITED AS TO NUMBER OF GENERATIONS?	VARIETY BE	17. IF "YES" TO ITEM BEYOND BREEDEF		CLASSES OF PRODUCTION
Yes No		Foundation	. 🔲 F	legistered Certified
18. DID THE APPLICANT(S) FILE FOR PROTECTION	ON OF THE VAF	RIETY IN THE U.S.?		Yes (If "Yes," give date)
	,			X No
19. HAS THE VARIETY BEEN OFFERED FOR SALE	E OR MARKETE	ED IN THE U.S. OR OTHER CO	UNTRIES?	Yes (If "Yes," give name of countries and dates) X No
20. The applicant(s) declare(s) that a viable samp	le of basic seed	ls of this variety will be furn	ished with	
plenished upon request in accordance with su The undersigned applicant(s) is (are) the own distinct, uniform, and stable as required in Se Variety Protection Act.	er(s) of this se	xually reproduced novel plan	at variety, er the prov	and believe(s) that the variety is visions of Section 42 of the Plant
Applicant(s) is (are) informed that false repre	sentation here	in can jeopardize protection	and result	in penalties.
SIGNATURE OF APPLICANT				DATE
John a Battle	·			95 19, 1984 DATE 50
SIGNATURE OF APPLICANT			['	

Asgrow Seed Company PVP Application-A6242 March 26, 1984

EXHIBIT A ORIGIN AND BREEDING HISTORY

Winter 1976 - Original cross made in the greenhouse at Ames, Iowa. Cross number - GH76367.

Parentage: (Tracy * D5064) F1 * J74-122

D5064 - Selection from Williams * Mack

J74-122 - Selection from Forrest * PI 88788

Summer 1976 - 10 F1 seed grown at Caruthersville, Missouri approximately 2,000 F2 seed produced.

Winter 1976-77 - 800 F2 plants screened for resistance to Race 4 cyst nematode under contract with the University of Missouri at Portageville, MO. Race 4 resistant plants identified and transplanted to the field at Caruthersville, MO. The line GH76367-01 F3 was harvested and forwarded to Ames, IA.

Summer 1978 - Yield trials of heterogenous F2 derived F3 lines including GH76367-12 and standard checks were grown at Dyersburg and-Henning, Tennessee on cyst nematode soil.

Winter 1978-79 - Fifty F4 plants were pulled and sent to Del Ray Beach, Florida and increased individually. GH76367-01-42 was identified.

Summer 1979 - A fifty entry yield test was conducted at Dyersburg, TN on a Race 4 SCN infested soil which included GH76367-01-42.

Winter 1979-80 - GH76367-01-42 was screened in the greenhouse and found resistant to Races 3 and 4 of soybean cyst nematode.

Summer 1980 - GH76367-01-42 was evaluated at 4 locations in test S654 as entry 12. 50 F7 plants were pulled from border rows.

Summer 1981 - Evaluated at 7 locations in \$581 as entry 25. Fifteen progeny rows of GH76367-01-42 were observed to be uniform for flower color, maturity, and podwall color. Identified as X6242 and considered to be stable and unique.

Winter 1982 - Six pounds of breeder seed sent to Belize, CENTRAL AMERICA, and increased to fifty pounds.

Summer 1982 - X6242 yield tested at 7 locations. Breeder seed increased to 24 units.

Summer 1983 - X6242 yield tested at 6 locations. Breeder seed increased to 1,600 units of Basic I seed.

Observations indicate A6242 is uniform and stable within commercially acceptable limits. As is true with other soybean varieties, a small percentage of offtypes or variants can occur within commercially acceptable limits for almost any characteristic during the course of repeated multiplication.

mga 3/26/84 b:A6242.exa Asgrow Seed Company PVP Application-A6242 March 26, 1984

NOVELTY STATEMEN

To our knowledge 46242 most resembles the cultivars, Tracy M and A6520. Differences include but are not necessarily restricted to the following:

(1) Pod Wallcolor:

A6242 - Brown Tracy M and A6520 - Tan

(2) Phytophthora Root Rot in greenhouse hypocotyl innoculations:

A6242 - Susceptible Tracy M and A6520 - Resistant

mga 3/26/84 b:A6242.exb

EXHIBIT C

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

	18 (47)		
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME	
Asgrow Seed Company	XP6242	A6242	: "
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip C	ode)	FOR OFFICIAL USE O	NLY
9620 190 25	***	PVPO NUMBER	-
Kalamazoo, MI 49001		8 4 00 096	
<u> </u>		<u> </u>	·
Choose the appropriate response which characterizes the variety in your answer is fewer than the number of boxes provide. Starred characters ★ are considered fundamental to an ade when information is available. 1. SEED SHAPE: 2 1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2) 7. SEED COAT COLOR: (Mature Seed)	d, place a zero in the first box we equate soybean variety description T 2 = Spherical Flattened (4 = Elongate Flattened (1)	hen number is 9 or less (e.g.,	0 9). lescribed
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (Specify)	·
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		· · · · · · · · · · · · · · · · · · ·	·····
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Neb 4. SEED SIZE: (Mature Seed) 1 5 Grams per 100 seeds	soy'; 'Gasoy 17')		·
5. HILUM COLOR: (Mature Seed) 6 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperfect Blac	k 6 = Black 7 = Other	(Specify)
6. COTYLEDON COLOR: (Mature Seed)			
1 = Yellow 2 = Green		and the second of the second o	to a week a training against
7. SEED PROTEIN PEROXIDASE ACTIVITY:			
1 1 = Low 2 = High			
8. SEED PROTEIN ELECTROPHORETIC BAND:			
1 = Type A (SP1 ^a) 2 = Type B (SP1 ^b)			
9. HYPOCOTYL COLOR:			
	th bronze band below cotyledons ('W	oodworth'; 'Tracy')	e de la companya de l
O. LEAFLET SHAPE:			
2 = Oval 3 = Ovate	4 = Other (Specify)		

FORM LMGS-470-57 (6-83)

(Edition of 2-82 is obsolete.)

-							·	র্ণা
11.	LEAF	LET SIZE:						•
3	3	1 = Small ('Amsoy 71'; 'A5312')	2 = Medit	m ('Corsoy 7	9'; 'Gasoy 17')			•
<i>*</i> -	ت	3 = Large ('Crawford'; 'Tracy')						
			<u> </u>		5.7	` `		
12.	LEAF	COLOR:		tie van	,			•
	3	1 = Light Green ('Weber'; 'York')	2 = Mediu		rsoy 79'; 'Braxı	on')		
	لا	3 = Dark Green ('Gnome'; 'Tracy')	The second second second				** * * * * *	et a la c
		ER COLOR:						
13.	FLOW	ER COLOR:	en ann Bearlaig B					
	2	1 = White 2 = Purple	3 = White wit	th purple thro	at		. Var earlier	
								
14.	POD C	OLOR:					g.	
# P	2	1 = Tan 2 = Brown	3 = Black			. * **		
		CONTRACTOR						
15.	PLAN	PUBESCENCE COLOR:		•				
	2	1 = Gray 2 = Brown (Tawny)	anners state and a second	,	e tagenera	ing district the second se	en de la companya de	
								ere.
16.	PLANT	TYPES:		· ·				,
	2	1 = Slender ('Essex'; 'Amsoy 71')	2 = Interm	nediate ('Amc	or': 'Braxton')		e e e	
	التنا	3 = Bushy ('Gnome'; 'Govan')						
17	PLANT	HABIT:				.		
¥.			NA CONTRACTOR		and the second	W - 1		
	1	1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved Pel		Determinate (*	Will')			•
i		and the second of the second o		t i i i saaste een een een een een een een een een e				
18.	MATU	RITY GROUP:	and the second second second	e de la servición de la servic	· · · · · · · · · · · · · · · · · · ·			1
	7	1 = 000 2 = 00 3 = 0 3	A = 1	: ₹ 5 = II	6 = III	7 = IV	8 = V	
0	9	9 = VI 10 = VII 11 = VIII		13 = X	0 - 111	7 - 1 V	6 - V	
		ordonio de la Servicio de Servicio de Maria de la Servicio de Servicio de Servicio de Servicio de Servicio de S Servicio de Servicio de Se		e Martin paga 18 a	an en la film de reachaet et la con-			
19. (DISEAS	SE REACTION: (Enter 0 = Not Tested; 1 = S	iusceptible; 2 = Re	sistant)	For English to the		The state of the s	,
	BACT	ERIAL DISEASES:	* *		Alternative States	B 4 - 480 - 1 - 1 - 1 - 1	Michael Communication	
t	2	Bacterial Pustule (Xanthomonas phaseoli va	e colonial					•
			134			-		
•	الا	Bacterial Blight (Pseudomonas glycinea)			· · · · · · · · · · · · · · · · · · ·	and the state of t		•
₹".	0	Wildfire (Pseudomonas tabaci)	en en et l'apparent le la la le la la le la la la le la	,		•.		
· F	FUNGA	AL DISEASES:	in the state of th	garga estado	.1			
	0							
•	ات	Brown Spot (Septoria glycines)						
		Frogeye Leaf Spot (Cercospora sojina)				19	and the second s	
7	0	Race 1 Race 2 Rac	ce 3 F	Race 4	Race 5	Other (Spi	ecify)	
		Target Spot (Corynespora cassiicola)						
1.15	씸			1. 1. 1. 1. 1. 1. 1.		Service Committee		
	0	Downy Mildew (Peronospora trifoliorum var	. manshurica)					
	0	Powdery Mildew (Microsphaera diffusa)			1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
•	0	Brown Stem Rot (Cephalosporium gregatum))	en e				
			and the same of				-	

Ĭ9.	DISEA	SE REACTIO	DN: (Enter 0 = Not	Tested; 1 = Susceptible; 2 =	Resistant) (Continue	ed)	The state of the s	A CONTRACTOR OF THE CONTRACTOR
	FUN	GAL DISEA	SES: (Continued)					*
*	0	Pod and St	em Blight <i>(Diaporthe</i>	phaseolorum var; sojae)				w. Table
	ि		i Stain (Cercospora k					
	0		a Root Rot <i>(Rhizoct</i>					
		Phytophtho	ora Rot <i>(Phytophtho</i>	ra megasperma var. sojae)				
*		Race 1	1 Race 2	Race 3	Race 4	Race 5	Race 6	Race 7
		Race 8	Race 9	Other (Specify)				
	VIRA	L DISEASES	S:	· · · · · · · · · · · · · · · · · · ·				
	0	Bud Blight ((Tobacco Ringspot V	'irus)				
	0		aic (Bean Yellow Mo				r	
*	0		saic (Cowpea Chloro					•
·	o	•	(Bean Pod Mottle Vi					
*			(Soybean Mosaic Vi					
		TODE DISE		ius		•		
					•		•	
<u>.</u>			st Nematode (Hetero	dera glycines)			* .	
^		Race 1	0 Race 2	2 Race 3 2	Race 4	Other (Specify)		· · · · · · · · · · · · · · · · · · ·
		Lance Nema	tode (HopIolaimus C	'olombus)		Z ·		•
*		Southern Ro	ot Knot Nematode (Meloidogyne incognita)				
*	0	Northern Ro	ot Knot Nematode (Metoidogyne Hapla)				
	1 '	Peanut Root	Knot Nematode (Me	eloidogyne arenaria)		•		
	0 '	Reniform Ne	matode (Rotylenchu	lus reniformis)				·
	\square	OTHER DISE	EASE NOT ON FOR	M (Specify):				
	···········	••			· · · · · · · · · · · · · · · · · · ·			
) = Not Tested; 1 = Suscep	tible; 2 = Resistant)	ę		
*		ron Chlorosi	s on Calcareous Soil					
	ه ا	ther (Specif	y)					
21. IN	SECT R	EACTION:	(Enter 0 = Not Test	ed; 1 = Susceptible; 2 = Re	sistant)		······	
	0 1	lexican Bean	Beetle (Epilachna v	arivestis)	e e de la companya d La companya de la companya de	2.4		e ¹¹ we g
	2 P	otato Leaf H	lopper <i>(Empoasca fa</i>	6I			•	•
		ther (Specify				ing in the second of the secon	MACO	
22. IN	DICATE	WHICH VA	RIETY MOST CLO	SELY RESEMBLES THA	SUBMITTED	oosaa oo oo oo oo oo aa ahaa oo aa Aasaa Aasaa	na a se di dinancia di mangana di	Company of the second of the s
	CHARAC			OF VARIETY	CHARACTER		NAME OF VA	ARIETY
· ·	nt Shape		Tracy M	<u>a e e e e e e e e e e e e e e e e e e e</u>	Seed Coat Luster		A6520	Wiph I I
Lea	af Shape		Tracy M		Seed Size		<u></u> 46520	
Lea	f Color		Tracy M		Seed Shape		A6520	
Lea	of Size		Tracy M		Seedling Pigment	tation	A6520	* 1 Aller 1 1
1.6				e da Albania de La Carte d La carte de La	enter en	yezh ev	<u> </u>	

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23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
	MATURITY			CM Width	CM Length	% Protein	% Oil	SEEDS	POD
XP6242 Submitted	146	1.9	85	8.3	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	43.3	19.2	15	
Tracy M Name of Similar Variety	148	2.6	80	7.1		45.3	17.6	15	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.